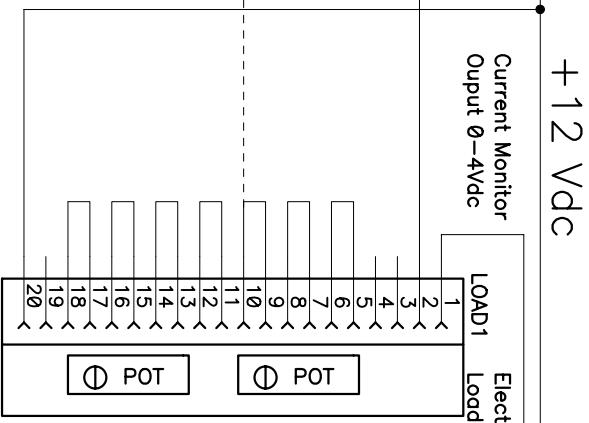


To opamp power

GNDANALOG
Analog / Bias Return

Optional D to A Input 0-4 Vdc Pin 10



+12 Vdc
Current Monitor Output 0-4Vdc

Electronic Load

Trip Point Adjust
External Pot

10K 1/4W
R3

10.0K 1/2W
R4

U1:1
LM358 OP SMT
10.0M 1/4W
R7

Scaled output of current
0-100% = 0-4Vdc

Optional D to A Input 0-5 Vdc

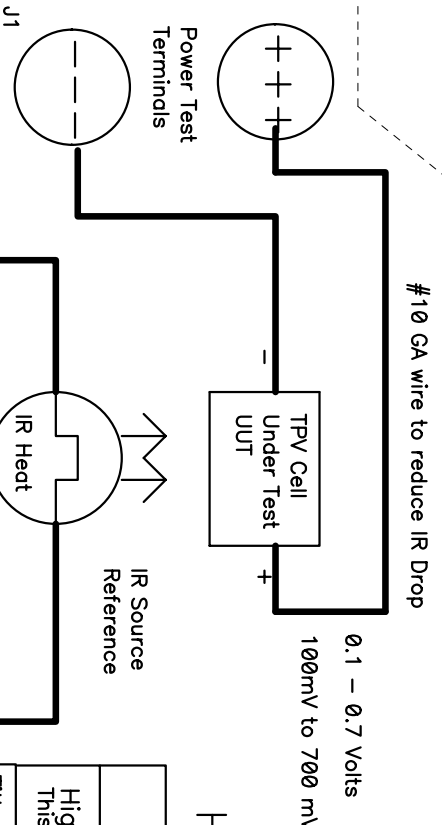
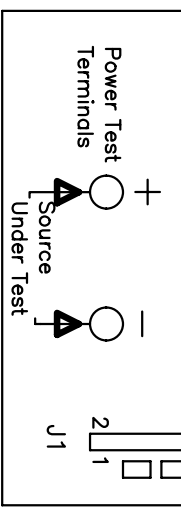
Good / Bad
Go / No Go
Output / Driver 0 or 12Vdc

Optional historesis resistor
J2 open for Constant Current
Load must have option 2

Connector shown from top view.
Pins shown as seen on electronic load.

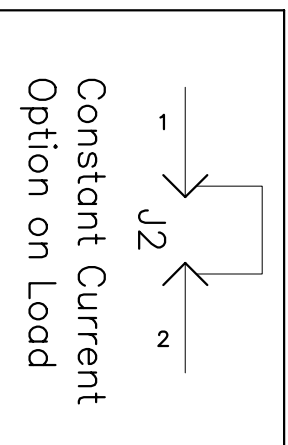
Note J1 - Pin 2 and the (-) source under test are connected, never have current flowing through this path. All control signals should be connected to J1-pin 2. Only the source under test should be connected to the power test terminal (+) and (-).

Viewed from top of load



#10 GA wire to reduce IR Drop

0.1 - 0.7 volts
100mV to 700 mV



Constant Current
Option on Load

[Http://www.EXEC-ENG.com](http://www.EXEC-ENG.com)

Executive Engineering

High Volume Solar Cell Tester for Manufacturing
This is a go / no-go tester using a fixed light source

Title
Solar Cell Testing using constant current

Size	Number	Rev
A	301/151 Solar Cell	1

Date	Mon Sep 20, 2004	Drawn by	dw
Filename	Solar-TPV-testing.SCH	Sheet	1 of 1